EQ's Combined Index for 1969

This is a comprehensive index to EQ's 1969 editions, exclusive of new products, except where a product received more than routine attention. The arrangement is alphabetical, incorporating both subject matter and authors. Date of issues e.g., 3/69 means March, 1969—and page numbers are given. 1969 was volume 15.

A

ACCELERATION
—**Simulation** (See Simulation).
—**Rocket sled testing,** 6/69, p. 43.
ACCELEROMETER
—**Piezoelectric,** 12/69, pp. 12, 16.
—**Piezoresistive,** 12/69, p. 16.
ALTITUDE
—**Testing firing propulsion systems,** 6/69, p. 44.
ANSTEY, ROBERT L.
—"A Definite Trend Toward More Realism," 12/69, p. 8.

C

CHAMBERS (See SIMULATOR).
COMPUTER
—**Time sharing, random vibration,** 3/69, p. 30; 9/69, p. 22.
CONFERENCES (See SYMPOSIUMS).
CRYOGENICS
—**LN_2 and LCO_2 handling, storage and distribution,** 3/69, p. 42.

E

ELASTOMERS
—**Piezoelectric properties,** 6/69, p. 8.
ELECTROMAGNETIC INTERFERENCE
—**Test methods, procedures,** 6/69, p. 30.
ENVIRONMENTAL
—**Education,** 6/69, pp. 6, 46; 12/69, p. 4.
—**Equipment manufacturers,** 3/69, pp. 7, 12, 55; 6/69, pp. 6, 12, 44, 45; 9/69, p. 36; 12/69, pp. 27, 28.
—**Products,** 3/69, pp. 46, 52; 6/69, pp. 31, 37; 9/69, pp. 26, 33; 12/69, pp. 20, 22.
—**Testing in the 70's,** 12/69, pp. 7, 8, 9, 10, 11.
ENVIRONMENTAL EQUIPMENT INSTITUTE, 6/69, p. 6; 9/69, p. 6.

F

FACILITIES
—**Environmental test, commercial,** 6/69, pp. 18, 44; 9/69, p. 25; 12/69, pp. 19, 27, 28.
—**Flight simulation,** 12/69, p. 9.
—**Man-rated oceanographic research,** 9/69, p. 36.
—**Orbital mission,** 9/69, p. 8.
—**Propulsion systems test firing at altitude,** 6/69, p. 44.
—**Radiant heat,** 6/69, p. 42.
—**Shock design-analysis service,** 6/69, p. 44.
—**Three-chamber, man-rated environment,** 9/69, p. 36.
FILTER
—**RFI/EMI,** 6/69, p. 30.
—**Tracking,** 6/69, p. 26.
FINKELSTEIN, CHARLES
—"A Good Window Can Save a Lot of Chamber Downtime Headaches, 6/69, p. 29.

H

HAFSTROM, J. ROBERT
—"When LN_2, When LCO_2?" 3/69, p. 42.
HEAT FLUX METER, 3/69, p. 40.
HUMIDITY (See SIMULATOR).

I

INSTITUTE OF ENVIRONMENTAL SCIENCES, 3/69, pp. 6, 8, 12, 55; 6/69, pp. 6, 11, 12; 9/69, pp. 6, 14, 19; 12/69, pp. 6, 11.

K

KLEIN, EDWARD P.
—Statement on the 70's, 12/69, p. 10.

L

LAUNCH VEHICLE
Apollo, 6/69, p. 18.
LAZZARA, PHILIP
—Statement on the 70's, 12/69, p. 11.

M

McGREGOR, HOWARD M.
—"The Tracking Filter," 6/69, p. 26.
MEASUREMENT
—**Calibrated frequency-domain,** 6/69, p. 30.
—**Digital data acquisition,** 9/69, p. 3.
—**Heat flux,** 3/69, p. 40.
—**Sounds produced by electronic devices,** 6/69, p. 45.
—**Vacuum and low pressure,** 6/69, p. 42.
—**With piezoelectric and piezoresistive accelerometers,** 12/69, p. 16.

N

NATIONAL BUREAU OF STANDARDS
—**New U.S. legal volt,** 12/69, p. 11.
—**Piezoelectric properties of elastomers,** 6/69, p. 8.
—**Vacuum and low pressure measurement,** 6/69, p. 42.
NOISE
—**Electronic devices,** 6/69, p. 45.
—**Generator:** acoustic, 6/69, p. 23; random, 9/69, p. 12.
—**Home sound-proofing,** 6/69, p. 44.
—**Jet,** 6/69, p. 30.

O

OCEANOGRAPHY
—**Biomedical research at 2,000' below sea level,** 9/69, p. 36.

P

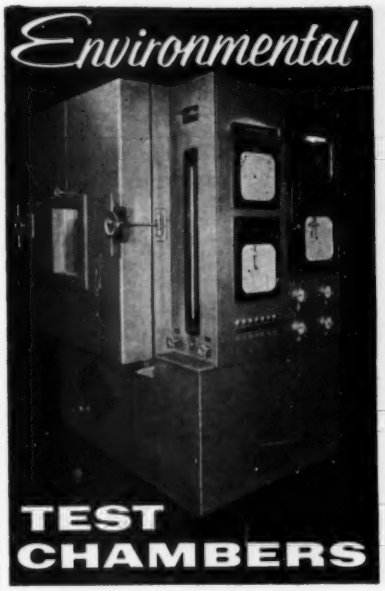
PHYSIOLOGICAL
—**Man-rated:** environment, 9/69, p. 36; oceanographic research, 9/69, p. 36.
—**Troop reaction to clothing, diet and drugs,** 9/69, p. 36.
POPPENDIEK, HEINZ F.
—"Why Not Measure Heat Flux Directly?" 3/69, p. 40.
PRESSURE, LOW
—**Measurement data,** 6/69, p. 42.
PRODUCT GUIDES
—**Accelerometers, piezoelectric,** 12/69, p. 12.
—**Generators, acoustic noise,** 6/69, p. 23.
—**Shock:** electrodynamic systems, 6/69, p. 23; machines, 6/69, p. 20.
—**Vibration test equipment:** electrodynamic systems, 3/69, p. 24; electrohydraulic systems, 3/69, p. 32; mechanical structural exciters, 3/69, p. 37; vibration machines, 3/69, p. 36.

Q

QUALITY CONTROL
—**Assurance programs,** 9/69, p. 6.
—**Consumer products, 3/69,** pp. 4, 18.

R

RADIO FREQUENCY INTERFERENCE
—**Test methods and procedures,** 6/69, p. 30.
REFRIGERATION



Standard cabinets are designed for extreme accuracy in testing. Thorough engineering and quality construction assure reliable, trouble-free performance.

Twenty years of service have given STANDARD invaluable experience and unusual technical skills needed for solving today's environmental problems. Whatever the simulated condition you need, STANDARD has a cabinet designed to do the job.

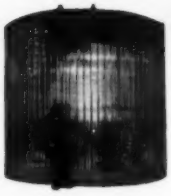
- High and Low Temperature
- Altitude
- Sand and Dust
- Rain and Sunshine
- Humidity
- Fungus
- Salt Spray
- Vibration, including AGREE
- Explosion
- Liquid CO_2 brine systems
- Mechanical and LCO_2 cooling
- Portable LCO_2 Supply Tanks
- Walk in
- Special applications

Write for catalog

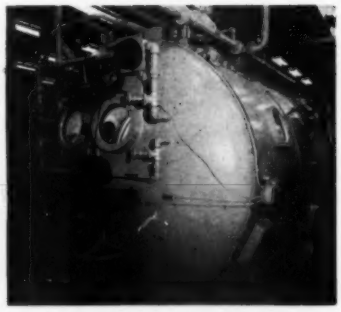
379 Minnisink Road, Totowa, New Jersey
Circle Service Card Key #117

FOR SIMULATION OF ANY ENVIRONMENT

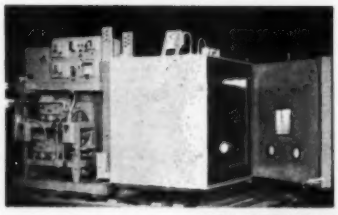
aerospace
oceanographic
medical research
general industry



THERMO-SHROUDS



HYPERBARIC CHAMBERS



A.G.R.E.E. CHAMBERS

-and custom chambers for every purpose.

ENVIRONMENTAL DIVISION
CGS
SCIENTIFIC CORPORATION
James Way
Southampton, Pa. 18966
(215) 355-5500

Circle Service Card Key #118

—**LN_2 and LCO_2 handling, storage and distribution,** 3/69, p. 42.
RELIABILITY
—**International product quality criteria,** 9/69, p. 19.
—**Quality assurance,** 9/69, p. 6.
—**Testing in the 70's,** 12/69, p. 9.

S

SEAMAN, ELLSWORTH
—"Product Quality Criteria via International Test Methods," 9/69, p. 19.
SEMINARS
—**Dynamic analysis,** 9/69, p. 25.
—**Industrial vibration and balancing problems,** 9/69, p. 8.
—**Processing-analyzing environmental data,** 9/69, p 8.
—**Vibration and shock testing,** 6/69, p. 11; 9/69, p. 14; 12/69, p. 4.
SHAKER (See SIMULATOR & VIBRATION).
SHOCK
—**Dynamic design-analysis method,** 6/69, p. 44.
—**Pulses defined by specs,** 6/69, p. 24.
—**Simulation** (See SIMULATOR).
SHOWS
—**Hanover Fair, Germany,** 3/69, p. 56.
—**IES,** 3/69, pp. 8, 12; 6/69, pp. 6, 8, 11, 12; 9/69, p. 6; 12/69, p. 6.
—**London Trade Center dynamics,** 9/69, p. 25.
—**Tokyo Environmental,** 3/69, p. 7.
SIMULATOR
—**Acceleration and vibration,** 9/69, p. 8.
—**Acoustic noise,** 6/69, p. 23.
—**Altitude,** 6/69, p. 44.
—**Atmosphere, controlled,** 9/69, p. 35.
—**Automotive endurance,** 3/69, p. 56.
—**Mars environment,** 12/69, p. 8.
—**Orbital,** 3/69, p. 56; 6/69, p. 30; 9/69, p. 35.
—**Shock:** electrodynamic systems, 6/69, p. 23; machines, 6/69, p. 20.
—**Solar radiation,** 6/69, p. 30; 12/69, p. 28.
—**Space,** 3/69, p. 56; 12/69, p. 8.
—**Temperature:** AGREE, 12/69, p. 27; constant, 6/69, p. 43; high-low, 6/69, p. 45; humidity, 3/69, p. 56.
—**Thermal vacuum** (See Orbital).
—**Vibration: acceleration,** 9/69, p. 8; electrodynamic, 3/69, pp. 24, 55; electrohydraulic, 3/69, p. 32; mechanical, 3/69, p. 36; structural, 3/69, p. 37.
SOLAR RADIATION
—**Solar disc facsimile,** 12/69, p. 28.
—**36" collimating lens,** 3/69, p. 56.
—**Unit: mobile,** 12/69, p. 28; off-axis, 6/69, p. 30; 9/69, p. 35.
SONIC BOOM, 12/69, p. 28.
SPACE VEHICLE
—**Saturn** (S-IVB), 12/69, p. 27.
—Saturn V. 6/69, p. 18.
SPECIFICATIONS
—**Shock,** 6/69, p. 24.
STANDARDS
—**Combined-environment space simulation,** 9/69, p. 16.
—**International, environmental test,** 9/69, p. 19.
SYMPOSIUMS
—**Aerodynamic testing,** 9/69, p. 6.
—**Aerospace sciences,** 9/69, p. 6.
—**Car crash,** 3/69, p. 6.
—**Environmental effects:** in failure of engineering materials, 3/69, p. 6; on aircraft and propulsion systems, 3/69, p. 6; 9/69, p. 6.
—**Instrument metrology environmental test,** 6/69, p. 6.
—**Man and his environment,** 6/69, p. 6.
—**Reliability,** 9/69, p. 6; 12/69, p. 6.
—**Shock:** tube, 3/69, p. 6; vibration, 3/69, p. 6; 6/69, p. 6; 9/69, p. 6.
—**Space simulation,** 6/69, p. 6; 9/69, p. 6.

T

TECHNICAL SOCIETIES
—**AIAA,** 3/69, p. 6; 6/69, p. 6; 9/69, p. 6.
—**ASME,** 3/69, p. 6.
—**ASNT,** 9/69, p. 6; 12/69, p. 6.
—**ASQC,** 9/69, p. 6; 12/69, p. 6.
—**ASTM,** 6/69, p. 6; 9/69, p. 6.
—**AVS,** 9/69, p. 6.
—**IEEE,** 9/69, p. 6; 12/69, p. 6.
—**IES** (See INSTITUTE OF ENVIRONMENTAL SCIENCES).
—**SAE,** 3/69, p. 6; 9/69, p. 6.
—**Society of Environmental Engineers,** 3/69, p. 56.
TEMPERATURE
—**Chamber window repairs,** 6/69, p. 29.
—**Heat flux measurement,** 3/69, p. 40.
—**LN_2, LCO_2 refrigerants,** 3/69, p. 42.
—**Room for paper chromatography,** 6/69, p. 43.
—**Simulation** (See SIMULATOR).
TESTING
—**Apollo "Short Stack,"** 6/69, p. 18.
—**Combined-environment space simulation,** 9/69, p. 16.
—**Facilities** (See FACILITIES).
—**Gas turbine engines,** 9/69, p. 8.
—**Home appliances,** 3/69, p. 18.
—**Maneuverable-recoverable re-entry spacecraft models,** 9/69, p. 8.
—**Methods, RFI/EMI,** 6/69, p. 30.
—**Random vibration, time sharing,** 3/69, p. 30; 9/69, p. 22.
—**Rocket sled.** 6/69, p. 43.
—**Selecting test chambers,** 9/69, p. 24.
—**To shock specs,** 6/69, p. 24 .
TIERNEY, WILLIAM L.
—"Combined-Environment Space Simulation in the 1970's," 9/69, p. 16.
TUSTIN, WAYNE
—"A Note on Steady-State Vibration," 6/69, p. 42.
—"How to Shock-It-to-'Em Mostly Depends on the Type of Spec," 6/69, p. 24.
"Piezoelectrics Are Well Known, But There's a Place in the Sun for Piezoresistives, Too," 12/69, p. 16
—"Readers Write: Some Comments on the Time-Sharing Idea for Random Testing," 9/69, p. 22.
—"Time Sharing: A Way to Better Random Testing, More Equipment?" 3/69, p. 30.

V

VACUUM
—**Chamber window repairs,** 6/69, p.29.
—**Measurement data,** 6/69, p. 42.
VIBRATION
—**Bridge study,** 12/69, p. 28.
—**Random, time sharing,** 3/69, p. 30; 9/69, p. 22.
—**Simulation** (See SIMULATORS).
—**Steady-state, dynamics,** 6/69, p. 42.
—**Use of tracking filters,** 6/69, p. 26.

W

WHEELER, GEORGE
—"Testing of Home Appliances . . .A Reliable Pursuit," 3/69, p. 18.
—"To the Lit Picker Goes the Spciled Chamber—and Bill," 9/69, p. 24.
WINDOW
—**Test chamber,** 6/69, p. 29.
WIND TUNNEL
—**Tandem, for V/STOL aircraft,** 3/69, p. 56.
—**Tests, maneuverable-recoverable re-entry spacecraft models,** 9/69, p. 8.
WYLE, FRANK S.
—"Reliability . . . For All," 12/69, p. 9.